This listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Currently amended)A semiconductor [[chip]]device having low metallization series resistance, the semiconductor device comprising:

a semiconductor substrate;

a metallization structure formed on [[said]]a semiconductor substrate;

an under bump metallurgy (UBM) layer formed over said metallization structure; and a conductive bump formed directly over said UBM layer and directly over the metallization structure[[;]],

wherein [[the]]a largest linear dimension of said UBM layer is largergreater than [[the]] a diameter of said conductive bump.

- 2. (Currently amended) The semiconductor device as in claim 1 wherein said metallization structure further comprises a top metallization layer, having said UBM layer is formed over the top metallization layer, and thereover, wherein the a thickness dimensions of said top metallization layer is substantially smaller than a thickness of said UBM layer.
- 3. (Currently amended) The semiconductor substrate as in claim 2 wherein said top metallization layer includes comprises aluminum.

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- 4. (Currently amended) The semiconductor device as in claim 1 wherein said UBM layer comprises (i) a bottom layer comprising[[of]] a metal, said bottom layer [[that]] adher[[es]]ing to said metallization structure, (ii) a middle layer comprising[[of]] a barrier metal, and (iii) a top layer [[of]]comprising a conductive solderable metal.
- 5. (Currently amended) The semiconductor device as in claim 4 wherein said bottom layer metal includes comprises at least one of aluminum, titanium, [[or]] and chromium.
- 6. (Currently amended) The semiconductor device as in claim 4 wherein said middle layer includes barrier metal comprises nickel.
- 7. (Currently amended) The semiconductor device as in claim 4 wherein said middle layer includes barrier metal comprises vanadium.
- 8. (Currently amended) The semiconductor device as in claim 4 wherein said top layer includesolderable conductive material comprises copper.
- 9. (Currently amended) The semiconductor device as in claim 4 wherein said top layer includes solderable conductive material comprises gold.
- 10. (Currently amended) A semiconductor [[chip]]device having low metallization series resistance, the semiconductor device comprising:

a semiconductor substrate;

a top metallization layer formed on [[said]]a semiconductor substrate;

a UBM layer formed over said top metallization layer; wherein the thickness of said top metallization layer is substantially smaller than said UBM layer; the UBM layer comprising (i) a bottom layer comprising at least one of aluminum and chromium, said bottom layer adhering to said metallization structure, (ii) a middle layer comprising vanadium, and (iii) a top layer comprising a conductive solderable metal; and a conductive bump formed over said UBM layer[[;]]

wherein the a thickness of said top metallization layer is substantially smaller than a thickness of said UBM layer, and a largest linear dimension of said UBM layer is largergreater than [[the]]a diameter of said conductive bump.

- 11. (Currently amended) The semiconductor substratedevice as in claim 10 wherein said top metallization layer includes comprises aluminum.
- 12.-14. (Cancelled)
- 15. (Currently amended) The semiconductor device as in claim [[13]]11 wherein said middle layer includes barrier metal comprises nickel.
- 16. (Cancelled)
- 17. (Currently amended) The semiconductor device as in claim [[13]]11 wherein said top layer includes conductive solderable metal comprises copper.
- 18. (Currently amended) The semiconductor device as in claim [[13]]11 wherein said top layer includes conductive solderable metal comprises gold.

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19. (New) The semiconductor device as in claim 1 wherein the UBM layer consists essentially of a single layer.